

Recreational Interpretations

General

The purpose of these interpretative ratings are to help engineers, planners, and others understand how soil properties influence behavior when used for recreational uses such as camp areas, picnic areas, playgrounds, and paths and trails. Soils are rated for the uses expected to be important or potentially important to users of soil survey information. Ratings for proposed uses are given in terms of limitations. Only the most restrictive features are listed. Other features may need to be treated to overcome soil limitations for a specific purpose.

Soils are rated in their "natural" state, that is, no unusual modification of the soil site or material is made other than that which is considered normal practice for the rated use. Even though soils may have limitations, it is important to remember that engineers and others can modify soil features or can design or adjust the plans for a recreational use to compensate for most degrees of limitations. Most of these practices are costly. The final decision in selecting a site for a particular use generally involves weighing the costs for site preparation and maintenance.

Limitation Ratings

SLIGHT - is the rating given soils that have properties favorable for the use. The degree of limitation is minor and can be overcome easily. Good performance and low maintenance can be expected.

MODERATE - is the rating given soils that have properties moderately favorable for the use. This degree of limitation can be overcome or modified by special planning, design, or maintenance. During some part of the year, the expected performance is less desirable than for soils rated slight.

SEVERE - is the rating given soils that have one or more properties unfavorable for the rated use, such as steep slopes, bedrock near the surface, flooding, or a seasonal high water table. This degree of limitation generally requires major soil reclamation, special design, or intensive maintenance, which in most situations is difficult and costly.

Other important consideration for evaluating a site include:

- ✓ Location and accessibility of the area
- ✓ Size and shape of the area and its scenic quality
- ✓ The ability of the soil to support vegetation
- ✓ Access to water
- ✓ Potential water impoundment sites available
- ✓ Access to public sewer lines or capacity of the soil to absorb septic tank effluent.

Camp Areas

These are tracts of land used intensively as sites for tents, trailers, campers, and accompanying activities of outdoor living. Camp areas require such site preparation as shaping and leveling in areas for tents and parking areas, for stabilizing roads and intensively used areas, and for installing sanitary facilities and utility lines. Camp areas

are subject to heavy foot traffic and some vehicular traffic. The soils are rated on the basis of soil properties that influence the ease of developing camping area and the performance of the camping area after development. Soil properties that influence trafficability and promote the growth of vegetation after heavy use are also important.

Picnic Areas

Picnic areas are natural or landscaped tracts used primarily for preparing meals and eating outdoors. These areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking lots. Soils are rated on the basis of properties that influence development costs of shaping the site, trafficability, and growth of vegetation after development. The surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

Playgrounds

These are areas used intensively for games such as baseball, football, and similar activities. Playgrounds require a nearly level soil that is free of stones and that can withstand heavy foot traffic and still maintain adequate vegetation. Soils are rated on the basis of properties that influence cost of shaping, trafficability, and growth of vegetation. Slope and stoniness are the main concerns in developing playgrounds. For good trafficability, the surface of playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

Paths and Trails

Paths and trails are used for walking, horseback riding, and similar uses, and should require little or no cutting and filling in site preparation. Soils are rated on properties that influence trafficability and erodibility. Paths and trails should remain firm under foot traffic and not be dusty when dry.

This subsection includes:

- **Recreational Site Development**

Table 13.--Recreational Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40000: Barden-----	Moderately limited percs slowly (moderately limited)	0.39	Moderately limited percs slowly (moderately limited)	0.39	Moderately limited percs slowly (moderately limited)	0.39	Not limited	
40011: Barco-----	Not limited		Not limited		Slightly limited depth to bedrock (slightly limited)	0.30	Not limited	
40015: Eldorado-----	Moderately limited large surface stones (moderately limited)	0.34	Moderately limited large surface stones (moderately limited)	0.34	Slightly limited small stones (slightly limited)	0.01	Moderately limited large surface stones (moderately limited)	0.34
40016: Eldorado-----	Moderately limited small stones (moderately limited)	0.42	Moderately limited small stones (moderately limited)	0.42	Very limited large stones >25% (very limited)	1.00	Moderately limited large surface stones (moderately limited)	0.41
	large surface stones (moderately limited)	0.41	large surface stones (moderately limited)	0.41	small stones (very limited)	1.00	large stones (slightly limited)	0.17
	large stones (slightly limited)	0.17	large stones (slightly limited)	0.17	slope (limited)	0.78		
40017: Maplegrove-----	Limited wetness (limited)	0.89	Moderately limited wetness (moderately limited)	0.54	Limited wetness (limited)	0.89	Moderately limited wetness (moderately limited)	0.54
	percs slowly (slightly limited)	0.13	percs slowly (slightly limited)	0.13	percs slowly (slightly limited)	0.13		
40018: Medoc-----	Very limited wetness (very limited)	1.00	Limited wetness (limited)	0.89	Very limited wetness (very limited)	1.00	Limited wetness (limited)	0.89
	percs slowly (moderately limited)	0.39	percs slowly (moderately limited)	0.39	percs slowly (moderately limited)	0.39		

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40019:								
Newtonia-----	Not limited		Not limited		Not limited		Not limited	
Eldorado-----	Not limited		Not limited		Slightly limited small stones (slightly limited)	0.01	Not limited	
40020:								
Newtonia-----	Not limited		Not limited		Not limited		Not limited	
Eldorado-----	Not limited		Not limited		Slightly limited small stones (slightly limited)	0.01	Not limited	
40021:								
Opolis-----	Very limited wetness (very limited) percs slowly (moderately limited) slope (moderately limited)	1.00 0.40 0.37	Limited wetness (limited) percs slowly (moderately limited) slope (moderately limited)	0.63 0.40 0.37	Very limited wetness (very limited) slope (very limited) percs slowly (moderately limited)	1.00 1.00 0.40	Limited wetness (limited)	0.63
Hepler-----	Very limited flooding (very limited) wetness (limited) percs slowly (slightly limited)	1.00 0.60 0.17	Slightly limited wetness (slightly limited) percs slowly (slightly limited)	0.28 0.17	Limited wetness (limited) flooding (moderately limited) percs slowly (slightly limited)	0.60 0.60 0.17	Slightly limited wetness (slightly limited)	0.28
40022:								
Opolis-----	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited) percs slowly (moderately limited)	0.63 0.40	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited)	0.63
40023:								
Opolis-----	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited) percs slowly (moderately limited)	0.63 0.40	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited)	0.63

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
40024: Opolis-----	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited) percs slowly (moderately limited)	0.63 0.40	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited)	0.63
40026: Sylvania-----	Limited wetness (limited) small stones (moderately limited) percs slowly (slightly limited)	0.80 0.33 0.13	Moderately limited wetness (moderately limited) small stones (moderately limited) percs slowly (slightly limited)	0.45 0.33 0.13	Very limited small stones (very limited) wetness (limited) percs slowly (slightly limited)	1.00 0.80 0.13	Moderately limited wetness (moderately limited)	0.45
40027: Sylvania-----	Very limited small stones (limited) percs slowly (slightly limited)	1.00 0.13	Very limited small stones (limited) percs slowly (slightly limited)	1.00 0.13	Very limited small stones (very limited) slope (limited) percs slowly (slightly limited)	1.00 0.78 0.13	Slightly limited small stones (slightly limited)	0.01
40028: Sylvania-----	Slightly limited percs slowly (slightly limited)	0.13	Slightly limited percs slowly (slightly limited)	0.13	Limited slope (limited) small stones (moderately limited) percs slowly (slightly limited)	0.78 0.30 0.13	Not limited	
40029: Sylvania-----	Limited wetness (limited) slope (moderately limited) percs slowly (slightly limited)	0.80 0.37 0.13	Moderately limited wetness (moderately limited) slope (moderately limited) percs slowly (slightly limited)	0.45 0.37 0.13	Very limited slope (very limited) wetness (limited) percs slowly (slightly limited)	1.00 0.80 0.13	Moderately limited wetness (moderately limited)	0.45

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
44000: Cherokee-----	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited) percs slowly (moderately limited)	0.89 0.40	Very limited wetness (very limited) percs slowly (moderately limited)	1.00 0.40	Limited wetness (limited)	0.89
44002: Carl-----	Very limited percs slowly (very limited) wetness (very limited) flooding (rare) (limited)	1.00 1.00 0.90	Very limited percs slowly (very limited) wetness (very limited) too clayey (moderately limited)	1.00 1.00 0.60	Very limited percs slowly (very limited) wetness (very limited) too clayey (moderately limited)	1.00 1.00 0.60	Very limited wetness (very limited) too clayey (moderately limited)	1.00 0.60
44004: McCune-----	Limited wetness (limited) percs slowly (moderately limited)	0.60 0.39	Moderately limited percs slowly (moderately limited) wetness (slightly limited)	0.39 0.28	Limited wetness (limited) percs slowly (moderately limited)	0.60 0.39	Slightly limited wetness (slightly limited)	0.28
46001: Verdigris-----	Very limited flooding (very limited)	1.00	Moderately limited flooding (moderately limited)	0.60	Very limited flooding (very limited)	1.00	Moderately limited flooding (moderately limited)	0.60
46002: Hepler-----	Very limited flooding (very limited) wetness (limited) percs slowly (slightly limited)	1.00 0.60 0.17	Slightly limited wetness (slightly limited) percs slowly (slightly limited)	0.28 0.17	Limited wetness (limited) flooding (moderately limited) percs slowly (slightly limited)	0.60 0.60 0.17	Slightly limited wetness (slightly limited)	0.28
46004: Osage-----	Very limited flooding (very limited) percs slowly (very limited) wetness (very limited)	1.00 1.00 1.00	Very limited percs slowly (very limited) wetness (very limited) too clayey (moderately limited)	1.00 1.00 0.60	Very limited percs slowly (very limited) wetness (very limited) flooding (moderately limited)	1.00 1.00 0.60	Very limited wetness (very limited) too clayey (moderately limited)	1.00 0.60

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
46005: Verdigris-----	Very limited flooding (very limited)	1.00	Not limited		Moderately limited flooding (moderately limited)	0.60	Not limited	
70006: Credlon-----	Moderately limited wetness (moderately limited) percs slowly (slightly limited)	0.38 0.13	Slightly limited wetness (slightly limited) percs slowly (slightly limited)	0.13 0.13	Moderately limited wetness (moderately limited) percs slowly (slightly limited) slope (slightly limited)	0.38 0.13 0.10	Slightly limited wetness (slightly limited)	0.13
70012: Hoberg-----	Limited wetness (limited)	0.60	Slightly limited wetness (slightly limited)	0.28	Limited wetness (limited) small stones (slightly limited)	0.60 0.01	Slightly limited wetness (slightly limited)	0.28
70045: Keeno-----	Limited wetness (limited)	0.60	Slightly limited wetness (slightly limited)	0.28	Limited slope (limited) wetness (limited) large stones (slightly limited)	0.98 0.60 0.30	Slightly limited wetness (slightly limited)	0.28
70056: Crackerneck-----	Very limited small stones (very limited) slope (moderately limited) percs slowly (slightly limited)	1.00 0.37 0.26	Very limited small stones (very limited) slope (moderately limited) percs slowly (slightly limited)	1.00 0.37 0.26	Very limited small stones (very limited) slope (very limited) large stones >25% (very limited)	1.00 1.00 1.00	Limited small stones (limited) large stones (slightly limited) wetness (slightly limited)	0.68 0.17 0.04

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70057: Crackerneck-----	Very limited slope (very limited) small stones (very limited) percs slowly (slightly limited)	1.00 1.00 0.26	Very limited slope (very limited) small stones (very limited) percs slowly (slightly limited)	1.00 1.00 0.26	Very limited small stones (very limited) slope (very limited) large stones >25% (very limited)	1.00 1.00 1.00	Limited slope (limited) small stones (limited) large stones (slightly limited)	0.92 0.68 0.17
70058: Crackerneck-----	Very limited small stones (very limited) percs slowly (slightly limited) wetness (slightly limited)	1.00 0.26 0.15	Very limited small stones (very limited) percs slowly (slightly limited) wetness (slightly limited)	1.00 0.26 0.04	Very limited small stones (very limited) slope (limited) percs slowly (slightly limited)	1.00 0.78 0.26	Slightly limited small stones (slightly limited) wetness (slightly limited)	0.30 0.04
70059: Goss-----	Very limited slope (very limited) small stones (very limited) large surface stones (very limited)	1.00 1.00 1.00	Very limited slope (very limited) large surface stones (very limited) small stones (very limited)	1.00 1.00 1.00	Very limited slope (very limited) large stones >25% (very limited) small stones (very limited)	1.00 1.00 1.00	Very limited large surface stones (very limited) slope (limited) large stones (slightly limited)	1.00 0.92 0.17
70060: Hoberg-----	Limited wetness (limited) percs slowly (moderately limited)	0.60 0.39	Moderately limited percs slowly (moderately limited) wetness (slightly limited)	0.39 0.28	Limited wetness (limited) percs slowly (moderately limited)	0.60 0.39	Slightly limited wetness (slightly limited)	0.28
Eldorado-----	Not limited		Not limited		Slightly limited small stones (slightly limited)	0.01	Not limited	
Pomme-----	Not limited		Not limited		Slightly limited small stones (slightly limited)	0.01	Not limited	

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
70061: Pomme-----	Not limited		Not limited		Slightly limited small stones (slightly limited)	0.01	Not limited	
70062: Pomme-----	Not limited		Not limited		Slightly limited small stones (slightly limited)	0.01	Not limited	
Rueter-----	Very limited small stones (very limited)	1.00	Very limited small stones (very limited)	1.00	Very limited small stones (very limited)	1.00	Slightly limited small stones (slightly limited)	0.24
					large stones (slightly limited)	0.30		
70063: Rueter-----	Limited small stones (limited)	0.96	Limited small stones (limited)	0.96	Very limited small stones (very limited)	1.00	Slightly limited large stones (slightly limited)	0.17
	slope (moderately limited)	0.37	slope (moderately limited)	0.37	slope (very limited)	1.00		
	large stones (slightly limited)	0.17	large stones (slightly limited)	0.17	large stones >25% (very limited)	1.00		
70064: Rueter-----	Very limited small stones (very limited)	1.00	Very limited small stones (very limited)	1.00	Very limited small stones (very limited)	1.00	Slightly limited small stones (slightly limited)	0.24
					large stones (slightly limited)	0.30		
70065: Rueter-----	Very limited small stones (very limited)	1.00	Very limited small stones (very limited)	1.00	Very limited small stones (very limited)	1.00	Slightly limited small stones (slightly limited)	0.24
					slope (limited)	0.78		
					large stones (slightly limited)	0.30		
70066: Winnipeg-----	Not limited		Not limited		Not limited		Not limited	

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
71751: Bearthicket-----	Very limited flooding (very limited)	1.00	Not limited		Moderately limited flooding (moderately limited)	0.60	Not limited	
73031: Gerald-----	Very limited percs slowly (very limited) wetness (limited)	1.00 0.97	Very limited percs slowly (very limited) wetness (limited)	1.00 0.60	Very limited percs slowly (very limited) wetness (limited)	1.00 0.97	Limited wetness (limited)	0.60
75376: Cedargap-----	Very limited flooding (very limited) small stones (moderately limited)	1.00 0.33	Moderately limited flooding (moderately limited) small stones (moderately limited)	0.60 0.33	Very limited flooding (very limited) small stones (very limited)	1.00 1.00	Moderately limited flooding (moderately limited)	0.60
99000: Pits-----	Not rated		Not rated		Not rated		Not rated	
Quarries-----	Not rated		Not rated		Not rated		Not rated	
99001: Water-----	Not rated		Not rated		Not rated		Not rated	
99002: Borrow areas-----	Not rated		Not rated		Not rated		Not rated	
99003: Miscellaneous water	Not rated		Not rated		Not rated		Not rated	
99005: Landfill-----	Very limited slope (very limited) percs slowly (very limited)	1.00 1.00	Very limited slope (very limited) percs slowly (very limited)	1.00 1.00	Very limited percs slowly (very limited) slope (very limited)	1.00 1.00	Very limited slope (very limited) erodes easily (very limited)	1.00 1.00
99010: Dumps-----	Not rated		Not rated		Not rated		Not rated	
Pits-----	Not rated		Not rated		Not rated		Not rated	

Table 13.--Recreational Site Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
99011: Kanima-----	Very limited small stones (very limited)	1.00	Very limited small stones (very limited)	1.00	Very limited small stones (very limited) slope (limited)	1.00 0.98	Limited small stones (limited)	0.73